

The Earth Observation Data Sharing Project and its Achievements in China

An Li, Zhijun Chen, Yuanyuan Wang and Fan Hu
Center for Earth Observation and Digital Earth (CEODE), CAS

In the 21st century, the earth observation application and research has entered a rapid development stage. Center for Earth Observation and Digital Earth, Chinese Academy of Sciences (CEODE, CAS), which operates satellite ground stations and remote sensing aircrafts, is the most important data source base of earth observation in China. Data acquired by CEODE has been widely used in the fields of agriculture, forestry, marine science, land resources, geology, urban planning, environmental protection, disaster monitoring, etc. and has made significant contributions to the development of society and economy.

In order to satisfy the fast-growing demand for earth observation data in national various fields, CEODE actively research and explore new forms of user service, in which data sharing for national users is the most important new initiative. Based on the experiences of earthquake monitoring data sharing in 2008 and 2010, CEODE issued to fully implement the national user-oriented "Earth Observation Data Sharing Plan (EODSP)" in March 2011. Through this project, about 25,000 scenes of medium-resolution spaceborne remote sensing data, including LANDSAT-5, LANDSAT-7, RESOURCESAT-1, ERS-1/2, and ENVISAT-1, are provided to national users by two ways: free online access, and special service agreements for key state projects. The implement of EODSP makes the important change and innovation of CEODE's user service model.

Since the implementation of EODSP, significant social benefits have been brought. Chinese Academy of Surveying & Mapping and its affiliations carry out the national geography condition monitoring. Rural Department, National Bureau of Statistics and Beijing Normal University obtain the farmland spatial coverage map and autumn grain planting space coverage map. China National Environmental Monitoring Center carries out National Ecological Environment Monitoring and Assessment research.

We believe that, with the sustainable development of EODSP, the wide use of earth observation data will be further promoted in various fields in China, the level of the national remote sensing user service by CEODE will be continuously improved, and the important contributions will be made to China's economic construction and social development.

Keywords: Earth Observation Data Sharing Project, Implementation, Achievements